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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,650	02/27/2002	Eric Yijing Zhang	Q66048	9665
75	03/10/2003			
Sughrue Mion Zinn Macpeak & Seas 2100 Pennsylvania Avenue N W Washington, DC 20037-3213			EXAMINER	
			ALVO, MARC S	
			ART UNIT	PAPER NUMBER
			1731	9
			DATE MAILED: 03/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/914,650	ZHANG ET AL.				
Office Action Summary	Examiner	Art Unit				
, ·	Steve Alvo	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	ely filed  will be considered timely.  the mailing date of this communication.				
1) Responsive to communication(s) filed on	•					
	- s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. § 119(e)	(to a provisional application)				
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office	4) Interview Summary (F 5) Notice of Informal Pat 6) Other:	PTO-413) Paper No(s) ent Application (PTO-152)				
S. Patent and Trademark Office PTO-326 (Rev. 04-01)  Office Action	n Summary	Part of Paper No. 9				

2) 3)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over LOWRIE et al in view of MADISON et al and GRIMSLEY et al and WEST.

LOWRIE et al teaches (Figure 5) preheating and/or pre-steaming lignocellulosic chips n(column 1, lines 1-18) passed to a refiner (412) and steam separator (418) and subsequent to steam separation, is passed to a storage vessel (latency chest (446)) and to a screening department (454) wherein the peroxide bleaching agent is added between the refiner and the screening department (425). MADISON et al teaches the bleaching of mechanical pulp in a process similar to LOWRIE et al, wherein the bleaching agent is added between the refiner (secondary refiner) and the screen, and teaches the alternativeness of using peroxide or hydrosulfites, see column 2, lines 24-26. It would have been obvious to use the reductive bleaching agent, e.g. hydrosulfite, for the bleaching agent of LOWRIE et al as the alternativeness of bleaching mechanical pulp is taught by MADISON et al. GRIMSLEY et al teaches when bleaching with hydrosulfites that the access to oxygen should be minimized. It would have been obvious to the artisan when substituting the hydrosulfite of MADISON et al for the peroxide of LOWRIE et al to minimize the access of oxygen as taught by GRIMSLEY et al. It would have been obvious to bleach the pulp under drastic conditions as such is taught by WEST, see WEST for adding a chelating agent just prior to the reducing agent. The use of a chelating agent with

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hydrosulfite bleaching agent would have been obvious from the teachings of WEST to stabilize the hydrosulfite, WEST, column 6, lines 25-28.

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Any inquiry concerning this communication or earlier communications from the **primary** examiner should be directed to Steve Alvo whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Steve Griffin, can be reached on 703-308-1164.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is **703-308-0661**.

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MSA 3/13/03

STEVE ALVO PRIMARY EXAMINER ART UNIT 1731